
**BODY IMPLANTABLE LEAD INCLUDING ONE OR MORE
CONDUCTIVE POLYMER ELECTRODES AND METHODS
FOR FABRICATING SAME**

5

Abstract of the Disclosure

10 A body implantable lead comprises a lead body including a
conductive polymer electrode disposed along a distal end portion of the
lead body for performing one or more of the functions consisting of
pacing, sensing, cardioversion and defibrillation. An electrical conductor,
preferably in the form of a multistrand cable conductor, couples the
conductive polymer electrode with a proximal end of the lead body. The
15 conductive polymer electrode encapsulates the conductor and is in
electrical contact therewith along the length, and preferably along
substantially the entire length, of the conductive polymer electrode. The
lead body may comprise a multilumen polymer housing, the conductor
being contained within one of the lumens of the housing. The conductive
20 polymer electrode may be disposed within a window formed in the lead
body. Alternatively, the conductive polymer electrode may comprise
multiple electrode sections within a corresponding number of windows
formed in the lead body and spaced apart along the length thereof.
Further, the window and the conductive polymer electrode disposed
25 therein may extend helically about the lead body. Because of its flexibility
and because it can have a small diameter, the lead of the invention is
particularly advantageous for implantation in the small, tortuous vessels of
the coronary sinus region of the heart for left side stimulation and/or
sensing.

30 Methods of fabricating lead bodies incorporating conductive
polymer electrodes are also disclosed.